**REMARKS** 

The following remarks are provided in response to the Final Office Action mailed

July 22, 2004 and the Advisory Action mailed October 14, 2004 in which the Examiner:

• rejected claims 1-3, 5-9, 26-27, 29-30, 31, and 33-34 under 35 U.S.C. §102(e) as

being anticipated by United States Patent No. 6,452,650 to Nakao et al.

(hereinafter Nakao);

• rejected claim 4 and 32 under 35 U.S.C. §103(a) as being unpatentable over

Nakao in view of United States Patent No. 5,087,664 to Sugino et al. (hereinafter

Sugino);

The applicants respectfully request reconsideration of the above referenced patent

application in view of the amendments and remarks set forth herein, and respectfully

request that the Examiner withdraw all rejections.

Allowable Subject Matter

The applicants acknowledge that the Examiner allowed claims 10-14 and 16.

**New Claims** 

The applicants herein add claims 35-38 and respectfully submit that they have the

right to claim the invention as set forth in new claims.

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35 U.S.C. §102(e)

The Examiner rejected claims 1-3, 5-9, 26-27, 29-30, 31, and 33-34 under §102(e)

as being anticipated by Nakao. For at least the foregoing reasons the applicants traverse

the Examiner's rejection.

To establish a prima facie case of anticipation under §102, the Examiner must

supply a single prior art document that alone teaches every element and every limitation

of the claim being rejected. If the Examiner cannot show that the single prior art

document asserts each and every element and limitation of the applicants' claim, then the

Examiner has failed to establish a prima facie case of anticipation for that claim. To

overcome the Examiner's anticipation rejection, the applicants must only demonstrate

that the cited prior art document fails to teach one element or limitation present in the

claim.

Independent claim 1 recites in a salient portion:

. . . forming a layer of second material between the two substrates of the

stacked device, wherein the second material causes a reaction in a portion of the first material.

(emphasis added)

The Examiner alleges that Nakao column 16, line 65 bridging column 17, line 13 and

Figures 1-3 teach the second material causing a reaction in at least a portion of the first

layer of material. The applicants respectfully disagree. The cited portions of Nakao

indicate that "... polymerization of the polymerizable monomers with the oligomers is

made by irradiation of ultraviolet [light] . . ." (emphasis added) (See Nakao, column

17, lines 4-5, and Figure 3(c) "Irradiation of ultraviolet"). The polymerizable monomers,

oligomers, and polymerization initiators do not react to form a polymer in the absence

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of ultraviolet light. The applicants assert that the polymerization taught by Nakao requires irradiation by ultraviolet light and does not, as recited by independent claim 1, teach a second material causing a reaction in the first material. Accordingly, the applicants respectfully request that the Examiner allow independent claim 1.

Independent claim 26 recites in a salient portion:

... reacting a portion of the layer of material, wherein the reaction results in the portion of the layer of material <u>increasing in volume</u>. (emphasis added)

The Examiner alleges that column 16, line 65 bridging column 17, line 13 and Figures 1-3 teach the portion of the layer of material increasing in size. The applicants respectfully point out that nothing in the cited portion of Nakao indicates reacting a portion of the layer of material wherein the reaction results in the portion of the layer of material increasing in volume. In particular, Figure 3(a) discloses a distance d1 between the transference electrodes 12. Figure 3(d) illustrates that, following the vacuum injection of a plurality of materials and ultraviolet polymerization, the distance d1 between transference electrodes 12 remains the same. As there is no indication that the vacuum injected materials occupy less than the entire volume between the transference electrodes 12, and the distance between the transference electrodes 12 is constant, the vacuum injected materials cannot increase in volume as a result of the ultraviolet polymerization reaction. Accordingly, the applicants respectfully request that the Examiner allow independent claim 26.

Independent claim 30 recites in a salient portion:

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... filling a portion of the area between the two substrates with <u>a polymer foam as a product of a reaction between the first material and the second material</u>.

(emphasis added)

The Examiner alleges that Nakao column 16, line 65 bridging column 17, line 13, and Figures 1-3 teach that the reaction results in the production of a polymer foam. The applicants disagree. The applicants assert that a polymer (element 13) including a dispersion of liquid crystal droplets (element 14) is not a polymer foam as recited by independent claim 30. (See also column 16, lines 23-34). Figures 3(a) and 3(b) indicate spacers 15 and cell gap d1; however Figures 3(c) et seq. illustrate, and the corresponding description confirms, that the spacers 15 are replaced by "a mixture of liquid crystals, polymerizable monomers, oligomers, and polymerization initiators" by way of vacuum injection. The cited portions of Nakao do not teach that the vacuum injected materials, whether before or after polymerization under ultraviolet light, comprise a polymer foam as recited by independent claim 30. Accordingly, the applicants respectfully request that the Examiner allow independent claim 30.

As dependent claims 2-9, 27, 29, and 31-34 depend from patentable independent claims, the applicants further request that the Examiner allow dependent claims 2-9, 27, 29, and 31-34.

35 U.S.C. §103(a)

The Examiner rejected claims 4 and 32 as being unpatentable over Nakao in view of Sugino. The applicants affirm that dependent claims 4 and 32 are patentable as each depends on a patentable independent claim (independent claims 1 and 30 respectively) as

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explained with reference to applicants' response to the §102 rejection.

## **CONCLUSION**

For at least the foregoing reasons, the applicants submit that they have overcome the Examiner's rejection and that they have the right to claim the invention as set forth in the listed claims. The Examiner is respectfully requested to contact the undersigned by telephone if it is believed that such contact would further the examination of the present application.

Please charge any shortages and credit any overcharges to our Deposit Account number 02-2666.

Respectfully submitted,

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